

Equipment sheet

American-run CNC machining, fabrication, welding, and joining in Chengdu. Work envelopes are as listed on the shop floor (meters unless noted). Setup describes axis count or machine class. ISO 9001 certified with AI-augmented and optimized QA.

CNC mills

CNC milling for housings, plates, blocks, and rack details. 3-axis, 4-axis, and 3+2. Largest gantry envelope 3.0 x 2.3 x 0.80 m.

Qty	Machine	Control	Envelope	Setup
6	Fanuc Robodrill	Fanuc 31i-B	0.5 x 0.4 x 0.35 m	3-axis mill
2	Jumine VMC	Fanuc 0i-MF	0.8 x 0.5 x 0.6 m	4-axis mill
2	Jumine VMC	Fanuc 0i-MF	1.3 x 0.7 x 0.6 m	3-axis mill
1	Jumine gantry VMC	Fanuc 0i-MF	2.0 x 1.3 x 0.7 m	Bridge mill
3	Haitian VMC	Fanuc 0i-MF Plus	1.2 x 0.6 x 0.6 m	3+2 turntable
3	Taicang VMC	Fanuc 0i-MF	0.8 x 0.5 x 0.6 m	4-axis mill
3	Taicang VMC	Fanuc 0i-MF	1.2 x 0.6 x 0.6 m	3-axis mill
1	Taicang gantry VMC	Fanuc 0i-MF	3.0 x 2.3 x 0.80 m	Bridge mill
2	VMC	Mitsubishi M70	0.85 x 0.5 x 0.6 m	4-axis mill

Turning and Swiss

Round parts and small fluid hardware: shafts, fittings, ports. Lathes to Ø400 x 500 mm. 5-axis Swiss to Ø26 mm.

Qty	Machine	Control	Envelope	Setup
2	HTC40H/500	Fanuc 0i-TF	Ø400 x 500 mm	2-axis lathe
2	Tsugami	Fanuc 0i-TF Plus	Ø400 x 500 mm	2-axis lathe
1	GongTai	Syntec	Ø400 mm	2-axis lathe
1	BYSK	Syntec	Ø25 mm	Gang tool
3	Hanbs	Syntec	Ø26 mm	5-axis Swiss

Cutoff, EDM, and broach

Blank prep and features that are awkward to mill: saw cutoff, keyways and splines on the broach, tight internal work on wire EDM.

Qty	Equipment	Envelope	Setup
2	Auto saw	Ø300 mm	CNC programmable
1	Semi-auto saw	Ø300 mm	45-degree cut
1	Horizontal broach	1.3 m stroke	5 ton
1	Wire EDM	0.4 x 0.4 m	Fast EDM

Inspection

First-article and production checks. Hexagon CMM with Renishaw 5-axis probe, plus shop-floor optical and height measurement.

Qty	Equipment	Envelope	Setup
1	Hexagon CMM	2.1 x 1.0 x 0.8 m	Renishaw 5-axis probe

Qty	Equipment	Envelope	Setup
2	Optics projector	0.4 x 0.3 x 0.3 m	Profile inspection
2	TESA-HITE 700	Height gauge	Height / layout

Laser (sheet, tube, coil)

Profiles for racks, brackets, panels, and tube work. 12 kW and 6 kW sheet lasers, plus tube and coil-fed systems.

Qty	Equipment	Setup
1	Hongshan laser 12,000 W	Sheet
2	Laser 6,000 W	Sheet
1	Tube cutting laser	Tube
1	Coil-fed laser	Coil

Welding

Frames, weldments, and assemblies. Robotic cells plus conventional welders and 4-axis rotary tables for repeatable joints.

Qty	Equipment	Setup
31	DC welder ZX7-270	Stick / MIG / TIG
4	Robotic welding cells	Robotic weld
4	4-axis rotary weld table	Positioner

Forming, punch, and shear

Brakes, shears, turret, and punch presses for brackets, covers, and formed sheet.

Qty	Equipment	Setup
6	CNC brake press	Forming
1	Roll form / plate leveler	Level / form
1	Flame cutting machine	Plate cutoff
1	Multi-head drill	Drill
3	CNC auto shear	Self-stacking
6	CNC shear	Shear
1	CNC turret punch press	Punch
2	40 ton punch press	Punch
1	80 ton punch press	Punch
6	Hydraulic presses	Press
2	High-speed hydraulic presses	Coil-fed
1	Hydraulic angle steel former	Angle form

Finish and fab-floor CNC

Powder and wet spray in house. Extra mills and a 5-axis rotary for secondary work on fab parts.

Qty	Equipment	Setup
1	Powder coating line	Powder
1	Automatic spray paint line	Wet spray
7	High-speed CNC mill (Taicang)	Fab-floor mill
2	CNC milling machine (fab)	Secondary mill
1	5-axis rotary table	5-axis rotary
1	Adjustable hydraulic conveyor	Handling
1	Automatic screening machine	Screen

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